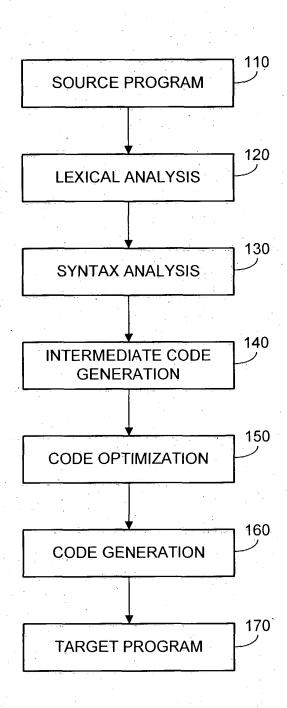
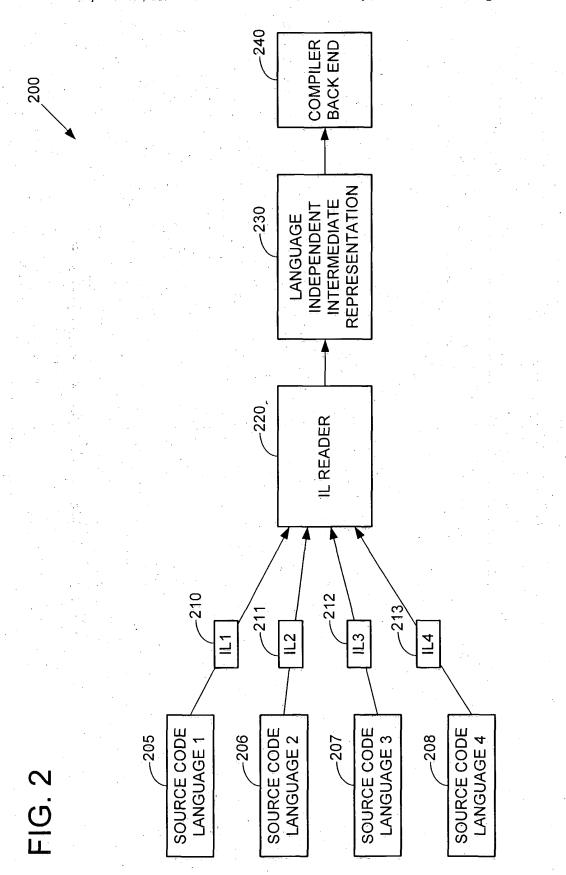
Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 1 of 34

100







Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 3 of 34



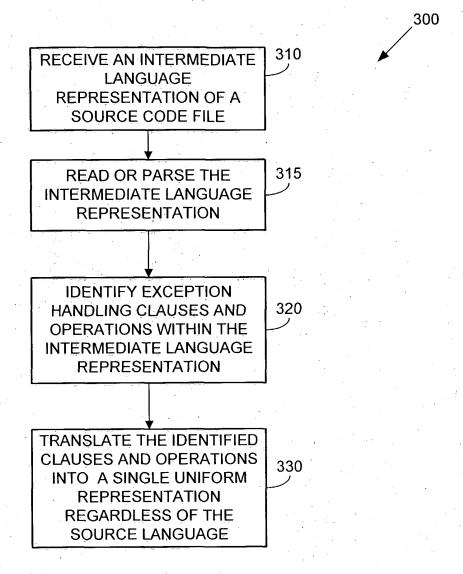
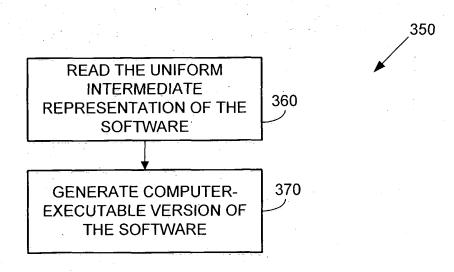


FIG. 3B



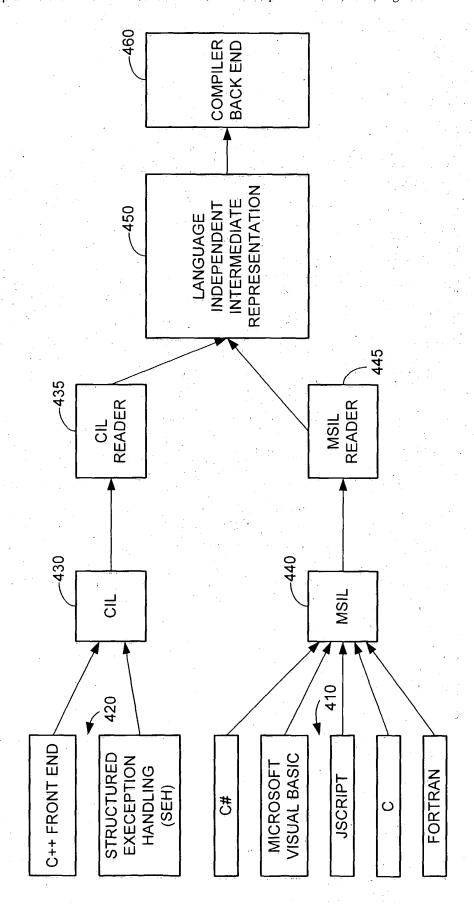
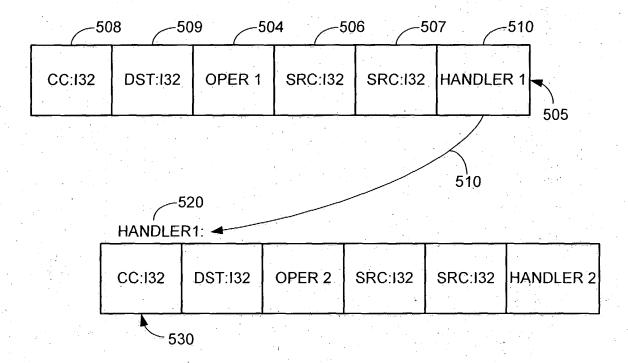


FIG.

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 5 of 34

FIG. 5



Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 6 of 34

FIG. 6

```
void foo(int a, int b, int c, int d)
{
    x = a div b;
    x = c div d;
}
```

```
a.int32, b.int32, c.int32 d.int32 = ENTER foo
x.int32 = DIV a.int32, b.int32; $HANDLER
x.int32 = DIV c.int32, d.int32; $HANDLER
EXIT
$HANDLER:
UNWIND
EXIT
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 7 of 34

FIG. 8

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 8 of 34

FIG. 10

```
a.int32, b.int32, c.int32 d.int32 = ENTER foo
x.int32 = DIV a.int32, b.int32; $FINALIZE
x.int32 = DIV c.int32, d.int32; $FINALIZE
FINAL $FINALIZE, $END 1112
$FINALIZE:
e.obj32, r.code = FINALLY; 1115
x.int32 = ADD x.int32, 1.int32;
ENDFINALLY e.obj32, r.code, $END; $PROPAGATE 120
$END:
EXIT;
$PROPAGATE:
UNWIND
EXIT;
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 9 of 34 1240

FIG. 12

```
void foo(int a, int b, int c, int d)
2
                                          1210
3
       try
4
5
      x = a div b;
6
      x = c \text{ div d};
7
8
      catch (System DivideByZeroException f) ~1215
9
                                            1220
10
      b = 1;
11
      d = 1:
12
13
      catch (System Exception e) \sim1225
14
                                            1231
15
      bar();
16
17
```

```
a.int32, b.int32, c.int32 d.int32 = ENTER foo
   x.int32 = a.int32 DIV b.int32; $HANDLER1
   x.int32 = c.int32 DIV d.int32; $HANDLER1,
   GOTO $END$
                                               ~1315
$HANDLER1:
   F.DivideByZeroException = TYPEFILTER $CATCH1,
HANDLER2;
                                    1320
$CATCH1:
   b.int32 = ASSIGN 1.int32;
   d.int32 = ASSIGN 1.int32;
   GOTO $END
                                                1325
$HANDLER2:
   E.Exception = TYPEFILTER $CATCH2, $PROPAGATE;
$CATCH2:
                              1330
   CALL bar(); $PROPAGATE
   GOTO $END
$PROPAGATE:
   UNWIND\sim1335
   EXIT:
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 10 of 34

```
void foo(int a, int b, int c, int d)
 try
                        1410
       x = a div b;
       x = c div d;
                                               1415
  catch (System DivideByZeroException f)
                 1420
       b = 1;
       d = 1;
                                     1425
      catch (System.Exception e)
                     1430
       bar();
      finally -
                    1440
       x = x + 1;
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 11 of 34

```
a.int32, b.int32, c.int32 d.int32 = ENTER foo
  x.int32 = a.int32 DIV b.int32; $HANDLER1
  x.int32 = c.int32 DIV d.int32; $HANDLER1,
  FINAL $FINALIZE, $END
$HANDLER1:
   F.DivideByZeroException = TYPEFILTER $CATCH1, ~1515
$HANDLER2;
$CATCH1:
                                        1520
  b.int32 = ASSIGN 1.int32;
  d.int32 = ASSIGN 1.int32;
  FINAL $FINALIZE, $END; ~1521
$HANDLER2:
   E.Exception = TYPEFILTER $CATCH2, $FINALIZE; ~1525
$CATCH2:
  CALL bar(); $FINALIZE
  FINAL $FINALIZE, $END~1531
$FINALIZE:
                                         1540
  e.obj32, r.code = FINALLY;
  x.int32 = ADD x.int32, 1.int32;
  ENDFINALLY e.obj32, r.code, $END; $PROPAGATE
$PROPAGATE: 1550
  UNWIND
  EXIT;
                1560
$END:
  EXIT:
```

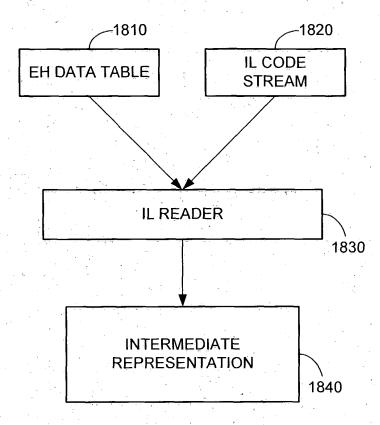
```
// S0
y = y + 4;
try
       x = a div b;
                              // S1
       try
                                      1615
1610
                              // S2
               x = c div d;
       catch (System.Foo)
                                             1625
                                     // S3 <sup>-</sup>
               x = x \text{ div } y
       finally
                                      1635
                              // S4 🗲
               x = 2;
catch (System DivideByZeroException f)
                                       1620
       b = 1;
                              // S5
       d = 1;
catch (System Exception e)
                                        1630
       bar();
                              // S6
y = y + 2;
                              // S7
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 13 of 34

y.int32 = ADD y.int32, 1.int32	// S0
x.int32 = a.int32 DIV b.int32; \$HANDLER1 \sim 1705	// S1
x.int32 = c.int32 DIV d.int32; \$HANDLER3 ~1706	// S2
FINAL \$FINALIZE, \$S7;	
\$FINALIZE: 1725	·
e0, r0 = FINALLY	
x.int32 = ASSIGN 2.int32;	// S4
ENDFINALLY e0, r0, \$\$7; \$HANDLER1~1726	
\$HANDLER3:	
e1 = TYPEFILTER \$CATCH3, \$FINALIZE	*
\$CATCH3: \[\text{v int32} = DIV \text{v int32} \text{v int32} \text{\$FINALIZE} 1720	# OO : .
X.III.OZ - DIV X.III.OZ, Y.III.OZ, WI IIV LIZE	// \$3
FINAL \$FINALIZE, \$\$7; 1710	
\$HANDLER1:	
e2 = TYPEFILTER \$CATCH1, \$HANDLER2;	
\$CATCH1: b.int32 = ASSIGN 1.int32;	// S5
d.int32 = ASSIGN 1.int32;	11 33
GOTO \$S7; 1715	
\$HANDLER2:	
e3 = TYPEFILTER \$CATCH2, \$PROPAGATE;	
\$CATCH2:	•
CALL bar(); \$PROPAGATE;	// S6
GOTO \$S7	
\$PROPAGATE:	
UNWIND	
EXIT;	
\$ S7:	
y.int32 = ADD y.int32, 1.int32	// S7
GOTO \$END;	• -
\$END:	
EXIT;	

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 14 of 34

FIG. 18



Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 15 of 34

FIG. 19A

		_1910	
ENTRY	INFO TAG	PROTECTED BLOCK	DESTINATION/HANDLER BLOCK
1	TRY CATCH	3-7	8-12
2	TRY CATCH	3-7	13-16

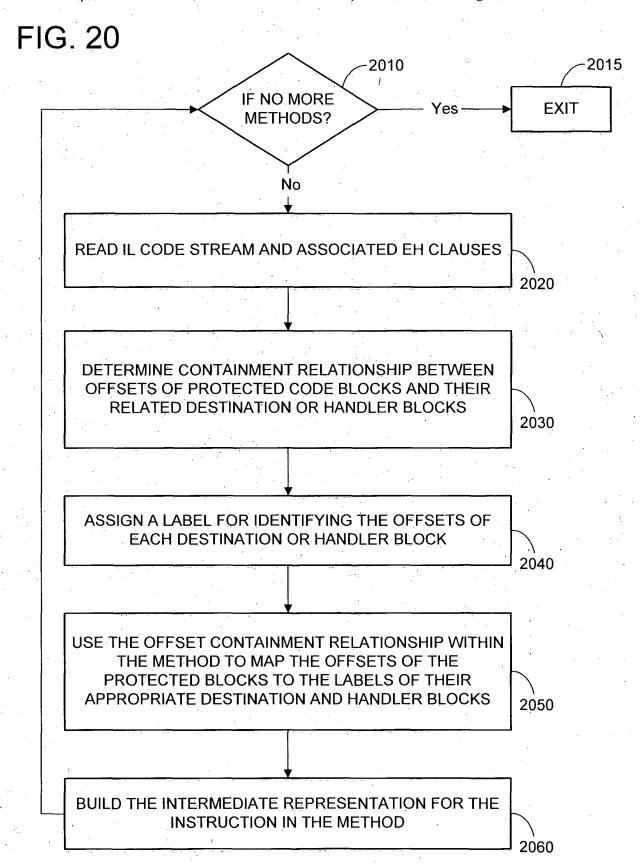
FIG. 19B

DESTINATION/HANDLER	LABEL
BLOCK OFFSET	
8-12	HANDLER 1
13-16	HANDLER 2

FIG. 19C

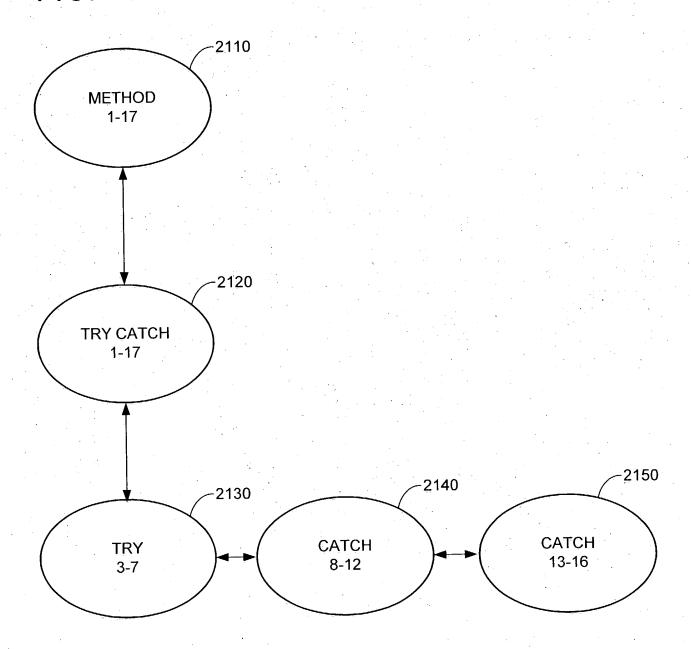
PROTECTED BLOCK	DESTINATION/HANDLER	LABEL
OFFSET	BLOCK OFFSET	
3-7	8-12	HANDLER 1
3-7	13-16	HANDLER 2

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 16 of 34



Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 17 of 34

FIG. 21



Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 18 of 34

FIG. 22

```
void proc()
{
    class1 obj1; // S1
    obj1.foo(); // S2
    class2 obj2; // S3
    obj2.bar(); // S4
}
```

```
void proc()
                      2310
   ctor1(&obj1);
   try
     obj1.foo();
     ctor2(&obj2);
          try
                                  2330
                 obj2.bar();
          finally
                                     2340
                 dtor2(&obj2);
   finally
                             2320
          dtor1(&obj1)
}
```

FIG. 24

```
ENTER proc
CALL class1, & obj1 $PROPAGATE
CALL foo, & obj1 $DTOR1
CALL class1,& obj2 $DTOR1
CALL bar, & obj2 $DTOR2
FINAL $DTOR2, $NEXT; ~2410
$NEXT:
  FINAL $DTOR1, $END \square 2420
$DTOR2:
   e, r = FINALLY
                                       2430
  CALL DTOR2(&obj2); $DTOR1~2435
   ENDFINALLY e, r, $DTOR1, $NEXT
$DTOR1.
                                          2440
   e2, r2 = FINALLY
   CALL DTOR1(&obj1); $PROPAGATE ~2445
   ENDFINALLY e1, r2, $PROPAGATE, $END
$PROPAGATE:
   UNWIND
   EXIT:
$END:
   EXIT;
```

```
void proc(int x)
{
    foo(x ? obj1(x) : obj2(x+1));
}
```

```
void proc()
{
    try
    {
        t1 = x ? ctor(&obj1,x) : NULL; ~2610
        try
        {
            t2 = x ? NULL : ctor(&obj2,x+1) ~2620
            foo( x ? t1 : t2);
        }
        finally
        {
            if (x) dtor(&obj1); ~2630
        }
    }
    finally
    {
        if (!x) dtor(&obj2); ~2640
    }
}
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 21 of 34

_x t140 \$L4:	=	ENTER proc CMP(NE) _x, 0 CBRANCH(NE) t140, \$L4, \$L5 \square 2710
t134 2720 t135 tv141- \$t142 \$L5:	= = = =	CALL ctor, &objl, _x; \$PROPAGATE \ ASSIGN t134 2721 ASSIGN [t135) ASSIGN 1 GOTO \$L6
t137 2730 t138 1139 tv141- \$t142 \$L6:	= = = = = = = = = = = = = = = = = = = =	ADD_x, 1 CALL ctor, &obj2, t137; \$PROPAGATE ASSIGN t138 ASSIGN [t139) ASSIGN 0 GOTO \$L6
t145	=	ASSIGN tv141- CALL bar, t145 FINAL \$OBJ1, \$L11
\$L11: \$OBJ1:		FINAL \$OBJ2, \$L12
r1 t144	= -	FINALLY CMP(EQ) \$t142, 0 CBRANCH(EQ) t144, \$L9, \$L10
\$L9:	0740	CALL dtor, &objl \$PROPAGATE GOTO \$L10
\$L10: \$OBJ2:	2740	- ENDFINALLY; rl, [\$L11), \$PROPAGATE
r2 t143	= =	►FINALLY CMP(EQ) \$t142, 1 CBRANCH(EQ) t143, \$L7, \$L8
\$L7:		CALL dtor, &obj2 \$PROPAGATE GOTO \$L8
\$L8:		ENDFINALLY; r2, [\$L12), \$PROPAGATE
\$PROPAGA	ATE:	UNWIND EXIT
\$L12:	;	EXIT

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 22 of 34

```
Obj foo(int x)
{
    Obj a, b; ~2810
    bar();
    if (x == 0)
    {
       return Obj(1); ~2820
    }
    else
    {
       return Obj(2); ~2830
    }
}
```

FIG. 29A

```
Obj foo(int x)
      CALL ctor (&a); $unwind;
      CALL ctor (&b); $final a;
     bar(); $final b;
      if (x == 0)
        CALL ctor Obj (&r1,1); $final_b; ~2960
       $f1 = 1; \rightarrow 2950
        FINAL $final b1; L2
        L2:
         FINAL $final a1, L1
        L1:
         f1 = 0:
         FINAL $final_r1, Lret
        Lret:
         return r1; \sim 2910
      CALL ctor Obj(&r2, 2); $final b;
      f2 = 1:
      FINAL $final b2, L3
     L3:
        FINAL $final_a2, L4
      L4:
        f2 = 0:
        FINAL $final_r2, Lret2
      Lret2:
        return r2;
```

FIG. 29B

```
$final b:
       e, R = FINALLY
      DTOR (&b); $final a;
       ENDFINALLY e, R, $final a;
     $final a:
      e, R = FINALLY
      CALL DTOR (&a); $unwind;
      ENDFINALLY e, R, HANDLER: $unwind;
     $final b1:
      e, R = FINALLY
      CALL DTOR (&b); $final a1; ~2930
       ENDFINALLY e, R, [L2], $final a1;
     $final a1:
      e, R = FINALLY
      CALL DTOR (&a); $final r1; ~2920
       ENDFINALLY e, R, [L1]; $final r1;
     $final b2:
      e, R = FINALLY
      CALL DTOR (&b); $final a2;
      ENDFINALLY e, R,[L3]; $final a2;
     $final a2:
      e, R = FINALLY
      CALL DTOR (&a); $final_r2;
      ENDFINALLY e, R, [L4]; $final r2;
     $final r1:
      e, R = FINALLY
      if ($f1 == 1) CALL DTOR (&r1);$unwind;~2940
      ENDFINALLY e, R, [Lret1]; $unwind;
    $final r2:
      e, R = FINALLY
      if ($f2 == 1) CALL DTOR (&r2); $unwind;
      ENDFINALLY e, R,[Lret2]; $unwind;
    }
```

FIG. 30

```
void proc()
{
    class1 obj1; // S1 - create an obj of type Class1
    obj1.foo(); // S2 - calling a method on obj 1
    throw foo; // S3
}
```

```
void proc()
                                                        // S1
   class1 obj1;
   class1 temp;
   try {
                                 3110
                                                        // S2
     obi1.foo();
         temp.copy_ctor(obj1);// \checkmark
                                                        // S3 \
         special throw(&temp, &dtor_of_class1)
                                                             3120
   finally {
         dtor_of_class1(obj1); \
                               3130
}
```

FIG. 32

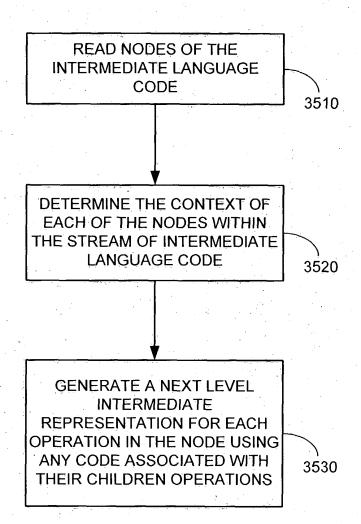
```
ENTER proc
  CALL ctor1(&obj1); $PROPAGATE
  CALL foo(&obj1); $DTOR1
  CALL copy_ctor(&temp, &obj1); $DTOR1
  FINAL $DTOR1;
  THROWVAL &temp, &dtor of class1, $PROPAGATE
$DTOR1:
                              3230
                  3220
  e2, r2 = FINALLY
                                              3210
  CALL DTOR1(&obj1); $PROPAGATE
  ENDFINALLY e1, r2, $PROPAGATE, $END
$PROPAGATE:
 UNWIND
  EXIT;
$END:
  EXIT;
```

```
void proc()
{
    __try {
        foo();
    } __except(filter()) {
        body();
    }
    next();
}
```

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 27 of 34

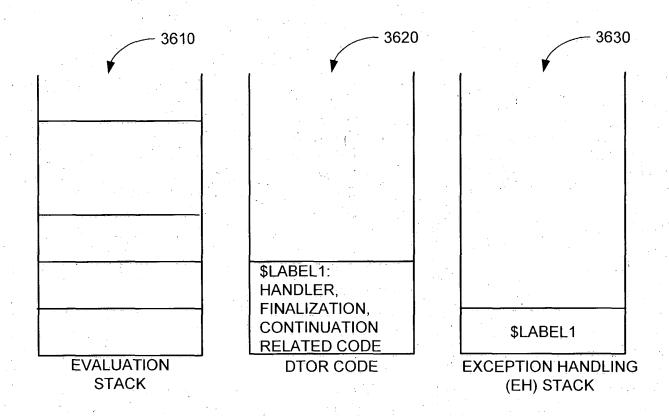
```
ENTER proc
$LABEL:
               $HANDLER ~3410
  SEHENTER;
  CALL foo(), $HANDLER~3420
  GOTO $NEXT;
$HANDLER: ~3430
  x = FILTER
  t = CALL filter(); \sim 3450
  ENDRESUMEFILTER t, $HANDLERBODY, $END, $LABEL
$HANDLERBODY:
                                                  3440
  CALL body(); $PROPAGATE
  GOTO $NEXT;
$NEXT:
  CALL next();
  EXIT;
$END:
  EXIT;
```

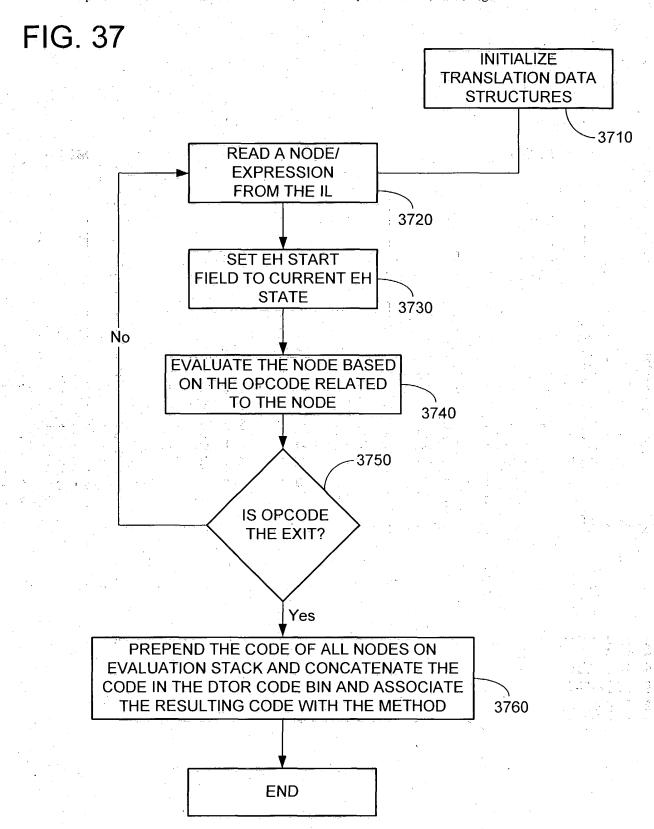
Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 28 of 34



Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 29 of 34

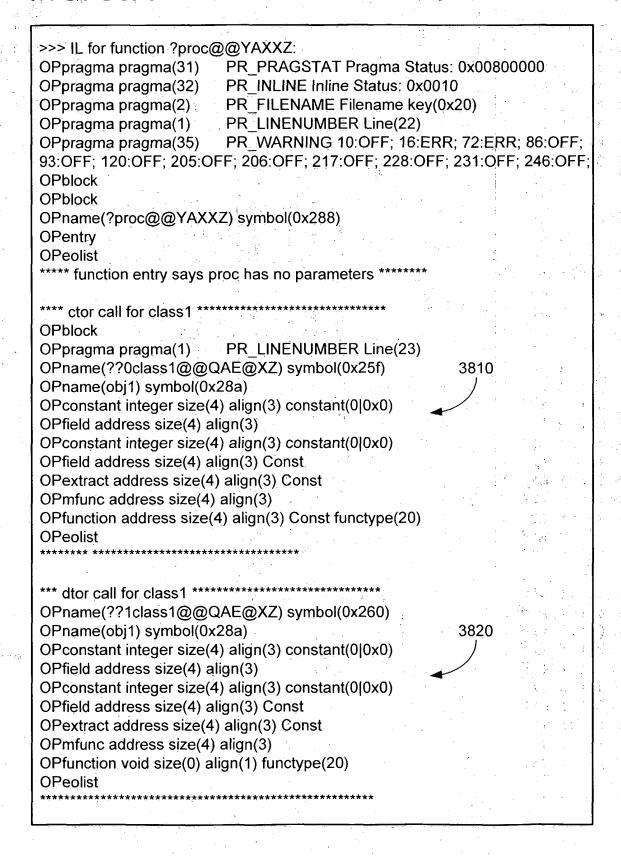
FIG. 36





Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 31 of 34

FIG. 38A



Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 32 of 34

FIG. 38B

OPpushstate address size(4) align(3) EH Flags 0x00000011 3830 **OPexpression** PR LINENUMBER Line(24) OPpragma pragma(1) OPname(?foo@class1@@QAEXXZ) symbol(0x261) OPname(obj1) symbol(0x28a) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) Const OPextract address size(4) align(3) Const OPmfunc address size(4) align(3) OPfunction void size(0) align(1) functype(20) **OPeolist OPexpression** PR LINENUMBER Line(25) OPpragma pragma(1) OPname(??0class2@@QAE@XZ) symbol(0x274) OPname(obj2) symbol(0x28b) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) Const OPextract address size(4) align(3) Const OPmfunc address size(4) align(3) OPfunction address size(4) align(3) Const functype(20) **OPeolist** OPname(??1class2@@QAE@XZ) symbol(0x275) OPname(obj2) symbol(0x28b) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) Const OPextract address size(4) align(3) Const OPmfunc address size(4) align(3) OPfunction void size(0) align(1) functype(20) **OPeolist**

Gregory L. Maurer, Klarquist Sparkman, LLP, 121 SW Salmon St., Suite 1600, Portland, Oregon 97204, (503) 226-7391; Inventor: Grover et al.; Title: AN INTERMEDIATE REPRESENTATION FOR MULTIPLE EXCEPTION HANDLING MODELS; Attorney Docket No.: 3382-65591; Express Mail Label No. EV339203824US; Date of Deposit: June 26, 2003; Page 33 of 34

FIG. 38C

OPpushstate address size(4) align(3) EH Flags 0x00000011 **OPexpression** OPpragma pragma(1) PR LINENUMBER Line(26) OPname(?bar@class2@@QAEXXZ) symbol(0x276) OPname(obj2) symbol(0x28b) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) OPconstant integer size(4) align(3) constant(0|0x0) OPfield address size(4) align(3) Const OPextract address size(4) align(3) Const OPmfunc address size(4) align(3) OPfunction void size(0) align(1) functype(20) **OPeolist OPexpression** OPpragma pragma(1) PR LINENUMBER Line(27) OPdtoraction cnt(2) EH Flags 0x00000031 **OPexpression** 3840 OPgoto symbol(0x289) OPendblock icon(2) OPlabel symbol(0x289) **OPexit** OPendblock icon(1) OPendblock icon(0)

